

AMENDMENT(S) TO THE CLAIMS

1. (Previously Allowed) A recycling apparatus, comprising:

a first frame;

a first disc screen section including a plurality of laterally extending first shafts rotatably mounted in the first frame and spaced along a longitudinal conveying direction, first drive means for rotating the first shafts, and a plurality of first discs mounted on the first shafts, the first discs being dimensioned, configured and spaced for classifying a stream of mixed recyclable materials deposited onto the first discs as the first discs are rotated by the first drive means to convey a first portion of the stream along the conveying direction to a first end of the first disc screen section;

a second frame positioned adjacent to the first frame;

a second disc screen section having a first end immediately adjacent to the first end of the first disc screen section and including a plurality of laterally extending second shafts rotatably mounted in the second frame and spaced along the longitudinal conveying direction, second drive means for rotating the second shafts, and a plurality of second discs mounted on the second shafts, the second discs being dimensioned, configured and spaced for classifying the first portion of the stream of mixed recyclable materials deposited onto the second discs from the first disc screen section as the second discs are rotated by the second drive means to convey a second portion of the stream along the conveying direction; and

means for selectively adjusting a second angle of inclination of the second disc screen section relative to the first disc screen section without changing a first angle of inclination of the first disc screen section.

2. (Previously Allowed) The recycling apparatus of Claim 1 and further comprising

means for pivotally connecting the second frame to the first frame.

3. (Previously Allowed) The recycling apparatus of Claim 1 wherein the means for selectively adjusting the second angle of inclination of the second disc screen section includes a hydraulic cylinder.

4. (Previously Allowed) The recycling apparatus of Claim 1 wherein the first frame and the second frame have complementary mating surfaces that limit a range of articulation of the second frame relative to the first frame.

5. (Previously Allowed) The recycling apparatus of Claim 1 wherein the first frame further includes a third frame and a third disc screen section including a plurality of laterally extending third shafts rotatably mounted in the third frame and spaced along a second longitudinal conveying direction, third drive means for rotating the third shafts, and a plurality of third discs mounted on the third shafts, the third discs being dimensioned, configured and spaced for classifying a third portion of the stream of mixed recyclable materials deposited onto the third discs..

6. (Previously Allowed) The recycling apparatus of Claim 1 and further comprising a stand for supporting the first and second frames.

7. (Previously Allowed) The recycling apparatus of Claim 1 wherein the frames are formed of steel plates.

8. (Previously Allowed) The recycling apparatus of Claim 1 wherein the first and second disc screen sections are positioned end-to-end to form a single continuous classifying deck.

9. (Previously Allowed) The recycling apparatus of Claim 1 wherein the first and second drive means share a common motor and drive linkage.

10. (Previously Allowed) The recycling apparatus of Claim 2 wherein the means for
2 pivotally connecting the second frame to the first frame includes an uppermost one of the first
shafts.

11-20 (Canceled)

21. (Currently Amended) A classifying apparatus, comprising:
2 a disc screen including a plurality of interleaved discs supported on ~~parallel~~ shafts spaced
along a conveying direction, a first frame rotatably supporting a first portion of the shafts to
4 define a first section of the disc screen, a second frame rotatably supporting a second portion of
the shafts to define a second section of the disc screen, and means for pivotally mounting the
6 second frame relative to the first frame;
at least one drive and drive linkage that rotates the shafts;
8 the discs having an outer contour shaped for agitating materials deposited onto the disc
screen and for carrying at least a portion of the materials along the conveying direction when the
10 discs are rotated in a common predetermined direction by the drive and drive linkage; and
means for ~~selectively~~ independently adjusting an angle of inclination of ~~the second section~~
12 ~~of the disc screen relative to the first section of the disc screen~~ each disc screen section in order
to improve the separation of materials deposited onto the disc screen.

22. (Previously Presented) The apparatus of Claim 21 wherein the first frame and the
2 second frame are carried by a stand.

23. (Currently Amended) The apparatus of Claim 21 wherein the frames have
2 complementary mating surfaces that ~~limits~~ limit a range of articulation of the second frame
relative to the first frame.

24. (Canceled)

2 25. (Previously Presented) The apparatus of Claim 21 wherein the shafts of the first section are rotated by a first drive and a first drive linkage and the shafts of the second section are rotated by a second drive and a second drive linkage.

26. (Canceled)

2 27. (Previously Presented) The apparatus of Claim 21 wherein the discs of the first section having a first spacing that is different than a second spacing of the discs of the second section.

2 28. (Previously Presented) The apparatus of Claim 21 wherein the first and second sections are positioned end-to-end to form a single continuous classifying deck.

2 29. (Previously Presented) The apparatus of Claim 21 wherein the discs of the first and second sections are rotated by a common motor and drive linkage.

2 30. (Previously Presented) The apparatus of Claim 21 wherein the means for pivotally mounting the second frame to the first frame includes a shaft of the first section.